

Patent claims

1. A method for the correct application of orthodontic fastening parts such as buttons, hooks, eyelets or brackets onto teeth, characterised by the following steps:
 - a) selection of an orthodontic fastening part which is suitable for the correction of a tooth position
 - b) covering the fastening part on the surface distant to the tooth with a protector which has a receiver surface which is complementary to this
 - c) accommodating the covered fastening part with the protector in a complementary applicator with a positive fit
 - d) depositing the adhesive into the opening of the applicator, said applicator facing the tooth, and thus also onto the fastening part
 - e) aligning the fastening part on the tooth surface with the help of the applicator using aids on the applicator
 - f) curing the adhesive
 - g) removing the applicator
 - h) removing the protector
2. A method according to claim 1, characterised in that the end contour of the applicator is adapted to the tooth surface in the bonding region before depositing the adhesive.
3. A method according to claim 1, characterised in that orthodontic fastening parts with a protector which is attached in a preassembled manner are used.
4. A method according to claim 1, characterised in that the curing of the adhesive is effected by way of a polymerisation lamp.

5. Orthodontic fastening parts for the adhesive (bonding) connection to a tooth surface, characterised in that the bonding surface of the fastening part in at least one direction has a surface which is curved in a convex manner.
6. Orthodontic fastening parts according to claim 5, characterised in that the fastening parts are of several parts.
7. Orthodontic fastening parts according to claim 5, characterised in that the bonding surface is provided with a structure and surface which increase the bonding.
8. A protector for accommodating an orthodontic fastening part to be bonded, characterised in that the protector has complementary shaping accommodating an orthodontic fastening part, in which the shape parts serving for the connection to force-transmitting elements are sealingly covered.
9. A protector according to claim 8, characterised in that it together with the orthodontic fastening part has a shape having an outer contour without undercuts.
10. A projector according to claim 8, characterised in that a recess for the meshingly engaging connection to the applicator is present in the outer contour.
11. A protector according to claim 8, characterised in that this is manufactured of plastic.
12. A protector according to claim 9, characterised in that this may be composed of several pieces.
13. A protector according to claim 8 for accommodating fastening a part of several pieces, characterised in that the protector simultaneously serves as an assembly gauge which holds together the fastening parts in a positional correct manner during the application.
14. An applicator for the positionally correct attachment of an orthodontic fastening part which is protected with a protector, characterised in that the applicator comprises an receiver cavity in which the orthodontic fastening part where appropriate with the protector is accommodated in a sealed and complementary manner and an intermediate space as an adhesive receiver space remains between a sealing surface of the applicator and the bonding surface of the orthodontic fastening part and wherein at least one aid for aligning the applicator or the orthodontic fastening part held therein relative to the tooth is present on the applicator.

15. An applicator according to claim 14, characterised in that as a sealing surface it comprises an edge running around the inserted orthodontic fastening part in a closed manner which defines a surface which contacts the bonding surface of the inserted bracket or runs distanced to this.
16. An applicator according to claim 14, characterised in that at least one aid is an angulation indicator which renders the angulation alignment recognisable.
17. An applicator according to claim 16, characterised in that at least one further aid is a torque indicator which renders the torque alignment recognisable.
18. An applicator according to claim 14, characterised in that at least one aid comprises a torque indicator attached running at least approximately perpendicular to the tooth axis and perpendicular to the base surface of the arch receiver slot of the bracket applied in the applicator.
19. An applicator according to at least one of the claims 16-18, characterised in that the aid is integrally formed on the applicator.
20. An applicator according to claim 14, characterised in that it is manufactured of plastic.
21. An applicator according to claim 16, characterised in that one or several rotation indicators running parallel to one another and parallel to the arch receiving slot are integrally formed on the angulation indicator indicating the tooth alignment.
22. An applicator according to claim 18, characterised in that two torque indicators running parallel are attached.
23. An applicator according to claim 14, characterised in that the applicator is provided with a protector which is integrally formed therein.